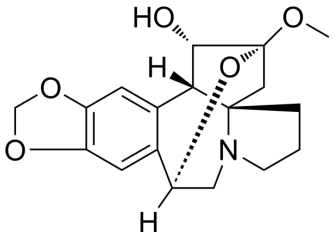
Drupacine

Cat. No.:	HY-N3786
CAS No.:	49686-57-9
Molecular Formula:	$C_{18}H_{21}NO_5$
Molecular Weight:	331.36
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Drupacine is a natural product, that can be isolated from Cephalotaxus harringtonia. Drupacine shows nematotoxicity and anticancer activity[1][2].
In Vitro	Drupacine shows cytotoxic effect on HCT-116, with IC_{50} of 16.20 ± 3.44 μM[1]. Drupacine shows cytotoxic effect for Bursaphelenchus xylophilus with ED_{50} of 27.1?μg/mL, and for Meloidogyne incognita with ED_{50} of 76.3?μg/mL, respectively[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Y, et al. Preparation of Stereo-Divergent Compounds from the Natural Product Drupacine Based on Complexity-to-Diversity Strategy. Chem Biodivers. 2023 Jun;20(6):e202300263.

[2]. Wen Y, et al. Nematotoxicity of drupacine and a Cephalotaxus alkaloid preparation against the plant-parasitic nematodes Meloidogyne incognita and Bursaphelenchus xylophilus. Pest Manag Sci. 2013 Sep;69(9):1026-33.

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